

ABSTRACT OF THE DISCLOSURE

A system and a method for rapidly tracking multiple faces are disclosed. A face-like region generator finds a face-like region by skin color, motion, and silhouette information. A face tracking engine tracks faces based on new and old faces, and skin colors provided by the face-like regions. The tracked face is fed into a face status checker for determining whether the face-like regions are old faces tracked in a previous frame or are possible new faces. If the face-like regions are old faces, a face verification engine checks whether there exists a predefined percentage of overlapping area between an old face and a skin region. If yes, the old face is still in the current frame and its position is in the center of the skin region, otherwise, the position of the old face is found by a correlation operation.